COMBINATORICA
Akadémiai Kiadó – Springer-Verlag

COMBINATORICA **10** (4) (1990) 399–400

CONTENTS OF VOLUME 10

NUMBER 1

W. AIELLO, S. GOLDWASSER, J. HASTAD: On the power of interaction 3
I. CSISZÁR, J. KÖRNER, L. LOVÁSZ, K. MARTON, G. SIMONYI: Entropy splitting for antiblocking corners and perfect graphs 27
H. DE FRAYSSEIX, J. PACH, R. POLLACK: How to draw a planar graph on a grid 41
V. KING: A lower bound for the recognition of digraph properties 53
M. LAS VERGNAS: An upper bound for the number of Eulerian orientations of a regular graph 61
S. NAKANO, T. NISHIZEKI, N. SAITO: On the fg-coloring of graphs 67
A. A. RAZBOROV: Applications of matrix methods to the theory of lower bounds in computational complexity 81
J. SPENCER: Infinite spectra in the first order theory of graphs 95
NOTES
P. G. BONNEAU: Weight distribution of translates of MDS codes 103
C. M. PAPADIMITRIOU, M. YANNAKAKIS: On recognizing integer polyhedra 107

NUMBER 2

PREFACE 113
R. ALEXANDER: Geometric methods in the study of irregularities of distribution 115
B. ARONOV, M. SHARIR: Triangles in space or building (and analyzing) castles in the air 137
I. BÁRÁNY, Z. FÜREDI, L. LOVÁSZ: On the number of halving planes 175
I. BÁRÁNY, M. PERLES: The Caratheodory number for the k-core 185
T. BISZTRICZKY, G. FEJES TÓTH: Convexly independent sets 195
H. L. BODLAENDER, P. GRITZMANN, V. KLEE, J. VAN LEEUWEN: Computational complexity of norm-maximization 203

NUMBER 3

PREFACE 227
B. CHAZELLE, J. FRIEDMAN: A deterministic view of random sampling and its use in geometry 229
H. EDELSBRUNNER: An acyclicity theorem for cell complexes in d dimension 251
P. ERDŐS, J. PACH: Variation on the theme of repeated distances 261
G. KALAI: On low-dimensional faces that high-dimensional polytopes must have 271
M. LACZKOVICH: Tilings of polygons with similar triangles 281
R. POLLACK, R. WENGER: Nessesary and sufficient conditions for hyperplane transversals 307
V. P. SOLTAN, NGUYEN MAN HUNG: Some notes about affine diameters of convex figures 313

NUMBER 4

N. ALON: The maximum number of Hamiltonian paths in tournaments 319
A. FRANK: Packing paths in planar graphs 325
J. C. LAGARIAS, H. W. LENSTRA, JR, C. P. SCHNORR: Korkin–Zolotarev bases and successive minima of a lattice and its reciprocal lattice ... 333
N. LINIAL, N. NISAN: Approximate inclusion-exclusion 349
B. D. MCKAY: The asymptotic numbers of regular tournaments, Eulerian digraphs and Eulerian oriented graphs 367
P. D. SEYMOUR: Colouring series–parallel graphs 379

NOTE

A. BLOKHUIS: Solution of an extremal problem for sets using resultants of polynomials 393

Author Index for Volume 10 397

Contents of Volume 10 399